

STAT

FOR OFFICIAL USE ONLY

CLASSIFICATION ~~SECRET~~
CENTRAL INTELLIGENCE AGENCY
INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

Unclassified-000
MAY 1 1954

CD

COUNTRY USSR
SUBJECT Scientific - Chemistry, lubricants, standards
HOW PUBLISHED Pamphlet
WHERE PUBLISHED Moscow
DATE PUBLISHED 1945
LANGUAGE Russian

DATE OF INFORMATION 1945
DATE DIST. 25 Jan 1952
NO. OF PAGES 2
SUPPLEMENT TO REPORT NO.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES WITHIN THE MEANING OF ESPIONAGE ACT NO. 18, U. S. C. 57 AND 58, AS AMENDED. ITS TRANSMISSION OR THE REVELATION OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

SOURCE GOST 2931-45,

STAT

USSR STANDARD FOR LUBRICANT KV (GOST 2931-45)

(Petroleum Industry B 24)

1. This standard deals with the consistent lubricant intended for lubricating mechanisms operating at low temperatures.

2. Composition of the lubricant

Percent by Wt

- | | |
|---|---|
| a. Commercial-grade castor oil (OST NKPP 362) | 5±0.5 |
| b. Commercial-grade animal fat (GOST 1045-41)
or hydrogenated fat (OST NKPP 439) | 5±0.5 |
| c. Commercial-grade sodium hydroxide (caustic soda), Type A or B (GOST 2263-43) | According to estimate
for complete saponi-
fication of fats |
| d. Mineral oil ("Velosite") (GOST 1840-42),
vaseline oil (GOST 1665-42), or transformer oil
(GOST 982-43) | Remainder |

NOTE: Vaseline and transformer oil must have freezing points not higher than -45° C without addition of substances to lower the freezing point. The transformer oil must have a viscosity, at 50° C, not greater than 1.7 (Engler).

3. The lubricant must satisfy the following physicochemical requirements:

- Appearance and characteristics: paste-like substance from white to light brown in color.
- The lubricant, applied in a layer about 1 mm thick on a glass plate, upon inspection over a light source, must be uniform and without clots.

- 1 -

STAT

CLASSIFICATION

STATE	<input checked="" type="checkbox"/> NAVY	<input checked="" type="checkbox"/> NSRB	DISTRIBUTION							
ARMY	<input checked="" type="checkbox"/> AIR	<input checked="" type="checkbox"/> FBI								

FOR OFFICIAL USE ONLY

STAT

~~RESTRICTED~~
~~SECRET~~



<u>Physicochemical Properties</u>	<u>Values</u>	<u>Test Method</u>
1. Penetration (Richardson) at 25° C, within	275-325	OST NKTP 7872/2292, M.I. 6a-36
2. Penetration at low temperatures:		GOST 2757-44
At -10° C, not less than	130	
At -50° C, not less than	45	
3. Drop point (Ubbelohde), not lower than	120° C	OST NKTP 7872/2292, M.I. 7zh-36
4. Syneresis at 50° C, not greater than	6%	GOST 2633-44
5. Preservative-property test on steel plates (layer of lubricant 0.2 mm thick)	Withstands one test cycle	GOST 2926-45
6. Content of free alkali, not more than	0.1%	OST NKTP 7872/2292, M.I. 25k-37
7. Content of free acid	None	
8. Mechanical impurities	None	OST NKTP 7872/2292, M.I. 19i-37
Water content, not more than	0.2%	GOST 1044-41

NOTE: 1. During determination of syneresis (point 4) use of a "red cover" filter is permitted.

11. Preservative property test (point 5) is carried out on steel plates, Types 40, 45, 50, and those similar to them (GOST 8-1050-41).

111. Absence of mechanical impurities is guaranteed by the manufacturing plant.

4. Packing, labeling, storage, transport, and inspection of the lubricant are carried out in accordance with GOST 1510-45.

5. Selection of samples of lubricant is carried out in accordance with GOST 2517-44. One kg of lubricant is set aside for control samples.

Proposed by People's Commissariat of Petroleum Industry USSR

Approved by the All-Union Committee on Standards 16 July 1945.

Effective 1 October 1945.

- E N D -

- 2 -

~~RESTRICTED~~
~~SECRET~~